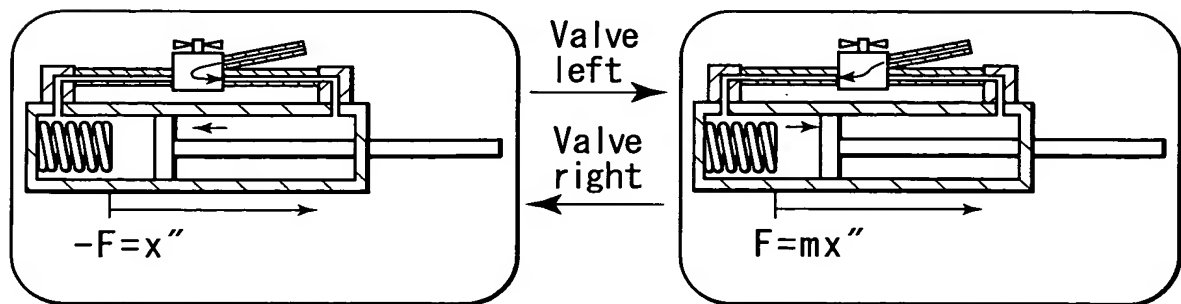
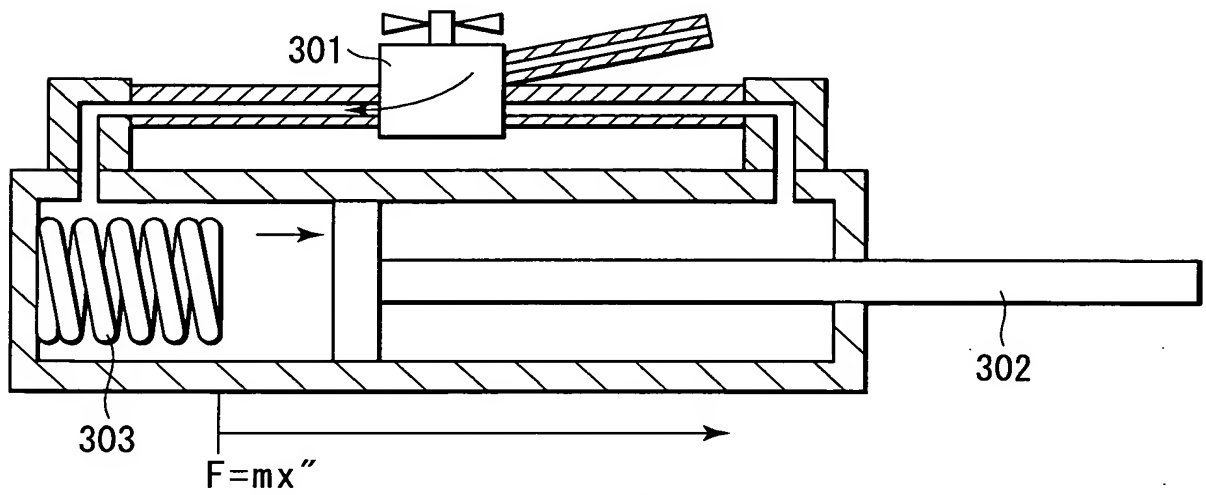
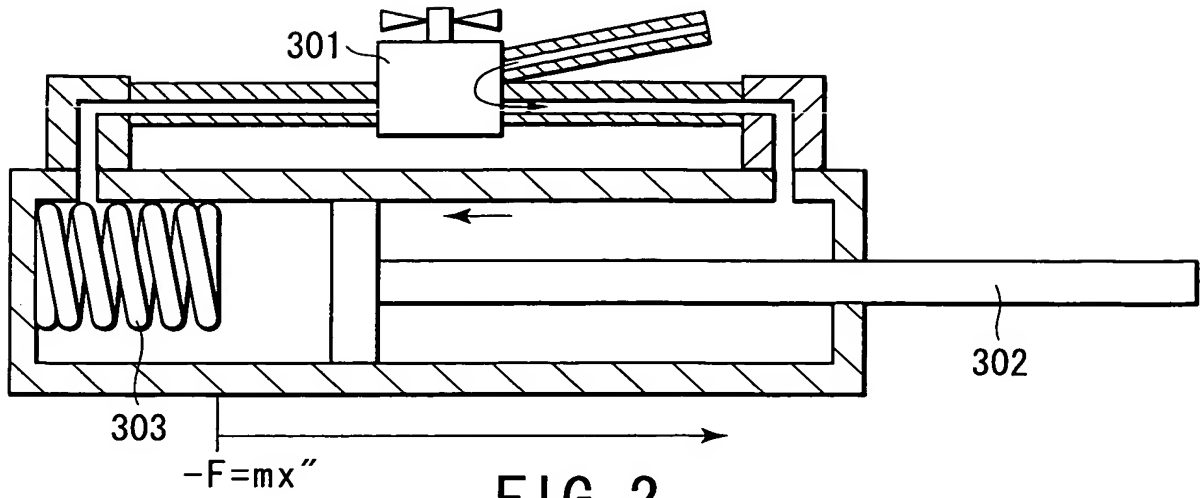
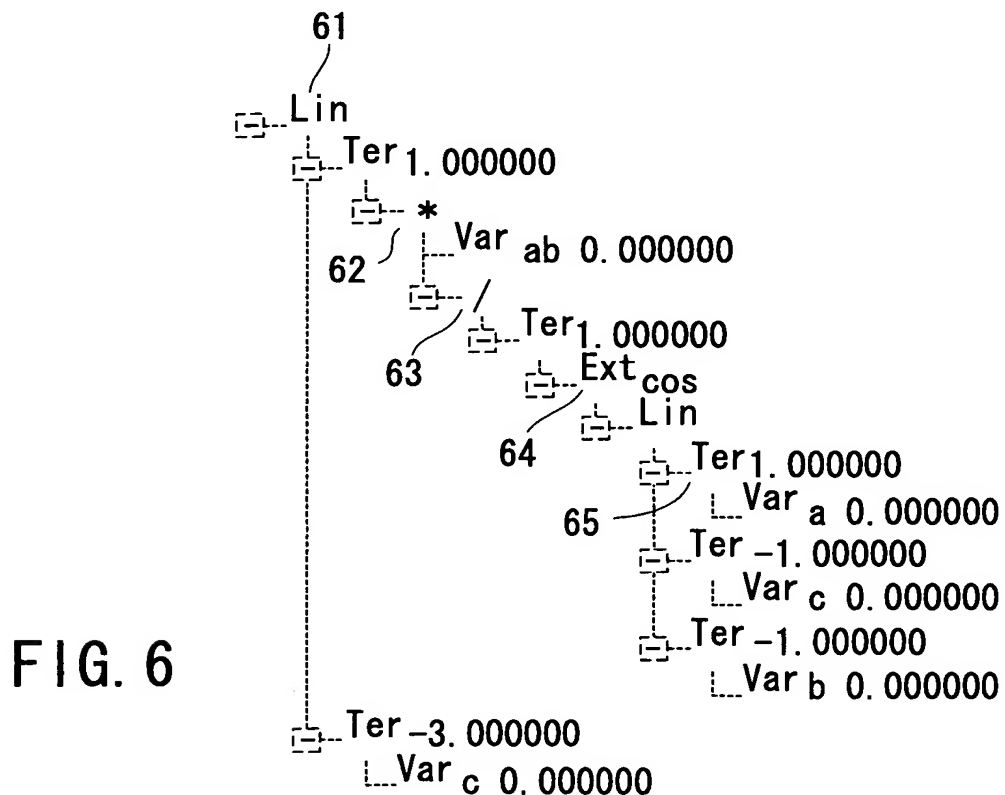


FIG. 1



L1	#define m 1
L2	#define f 100
L3	Right, <sup>ev1</sup> // Initial state of valve
L4	wait 50 do Left, <sup>ev2</sup> // Turn valve to right when time = 50.
L5	// Conditional formula when valve faces right
L6	always if Left then do always f = m * x" <sup>eq1</sup> watching Right,
L7	// Conditional formula when valve faces left
L8	always if Right then do always -f = m * x" <sup>eq2</sup> watching Left,
L9	sample (X), <sup>ev4</sup>
L10	x = 0, x' = 0 // Initial state of variable x

FIG. 5



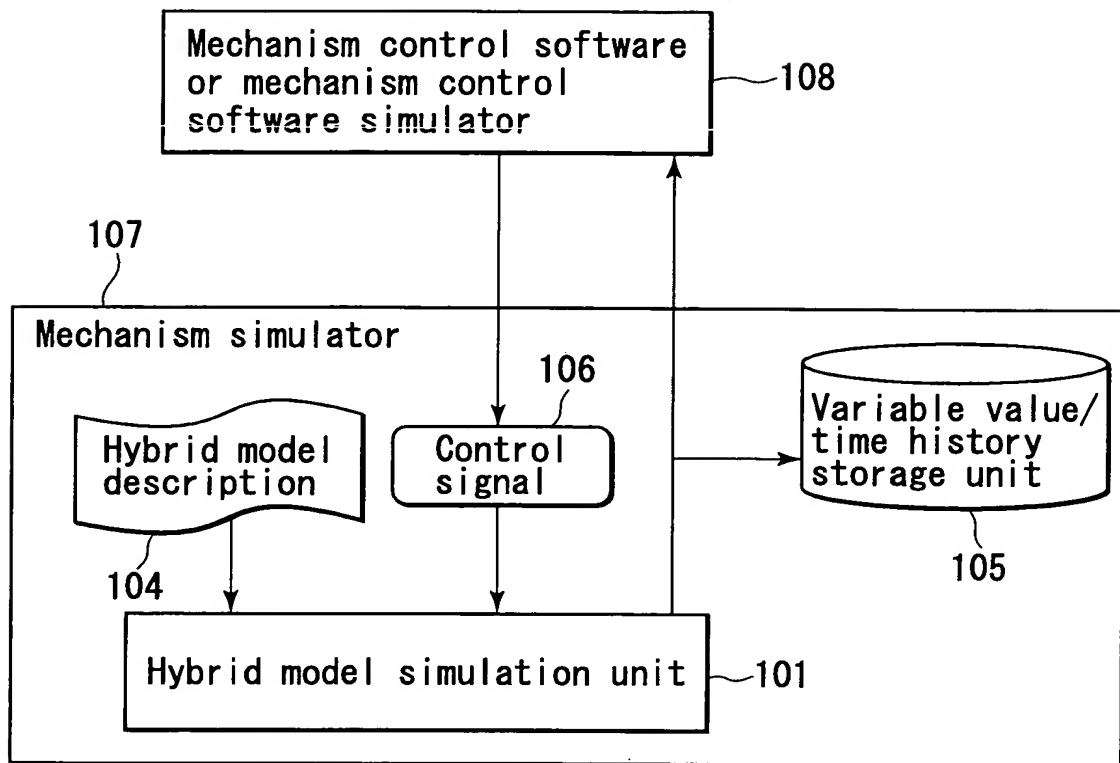


FIG. 7

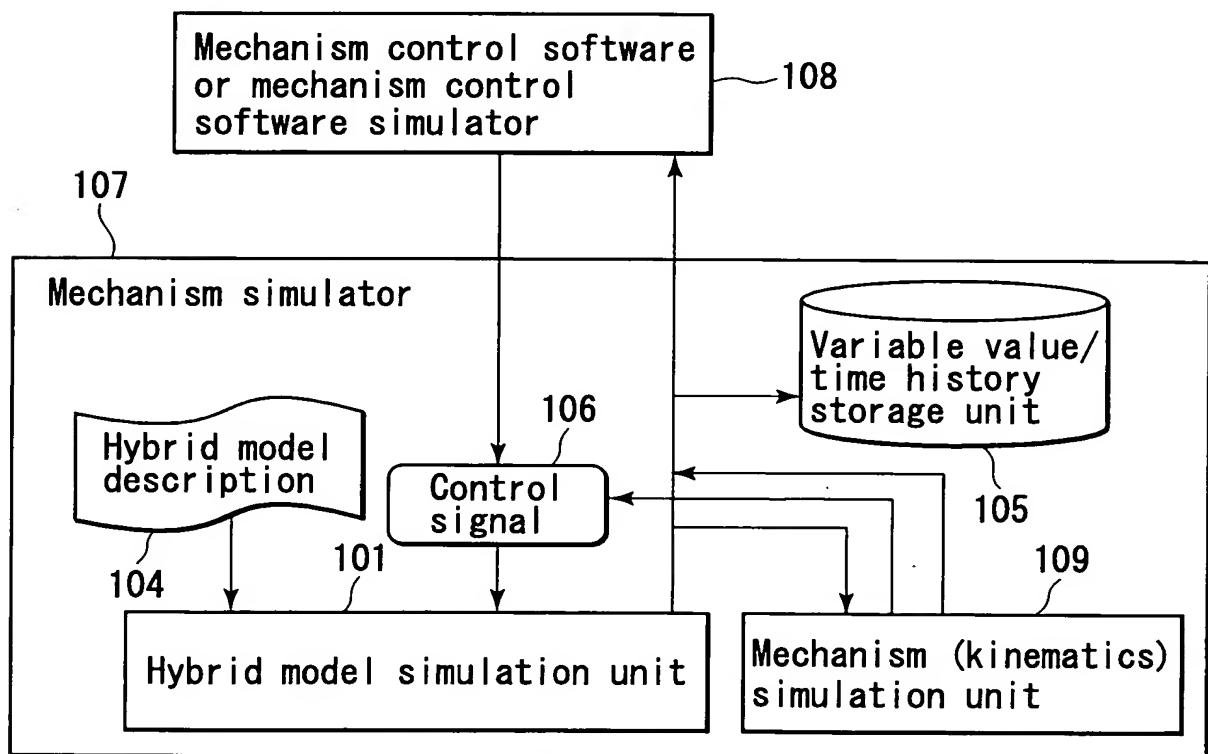


FIG. 8

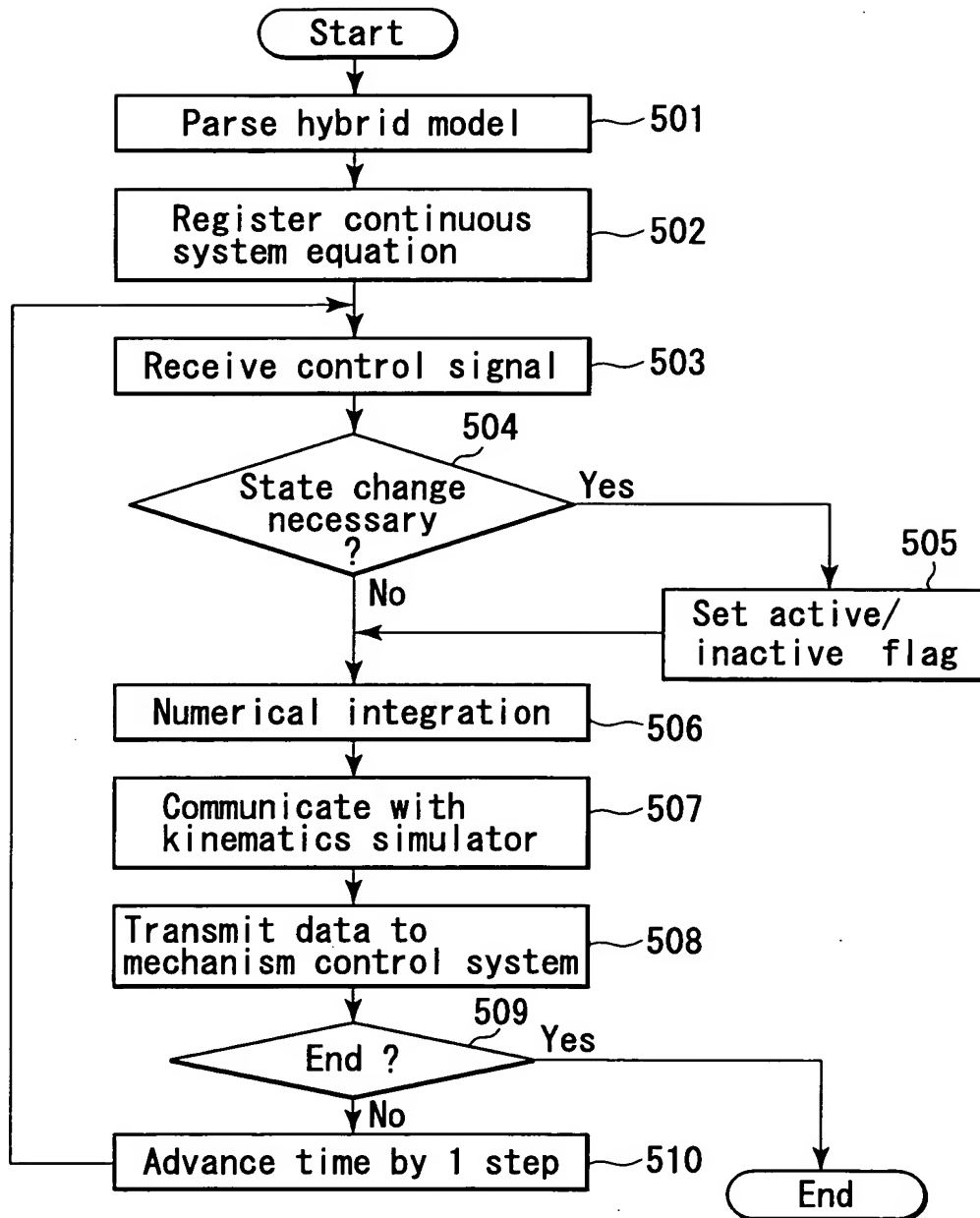
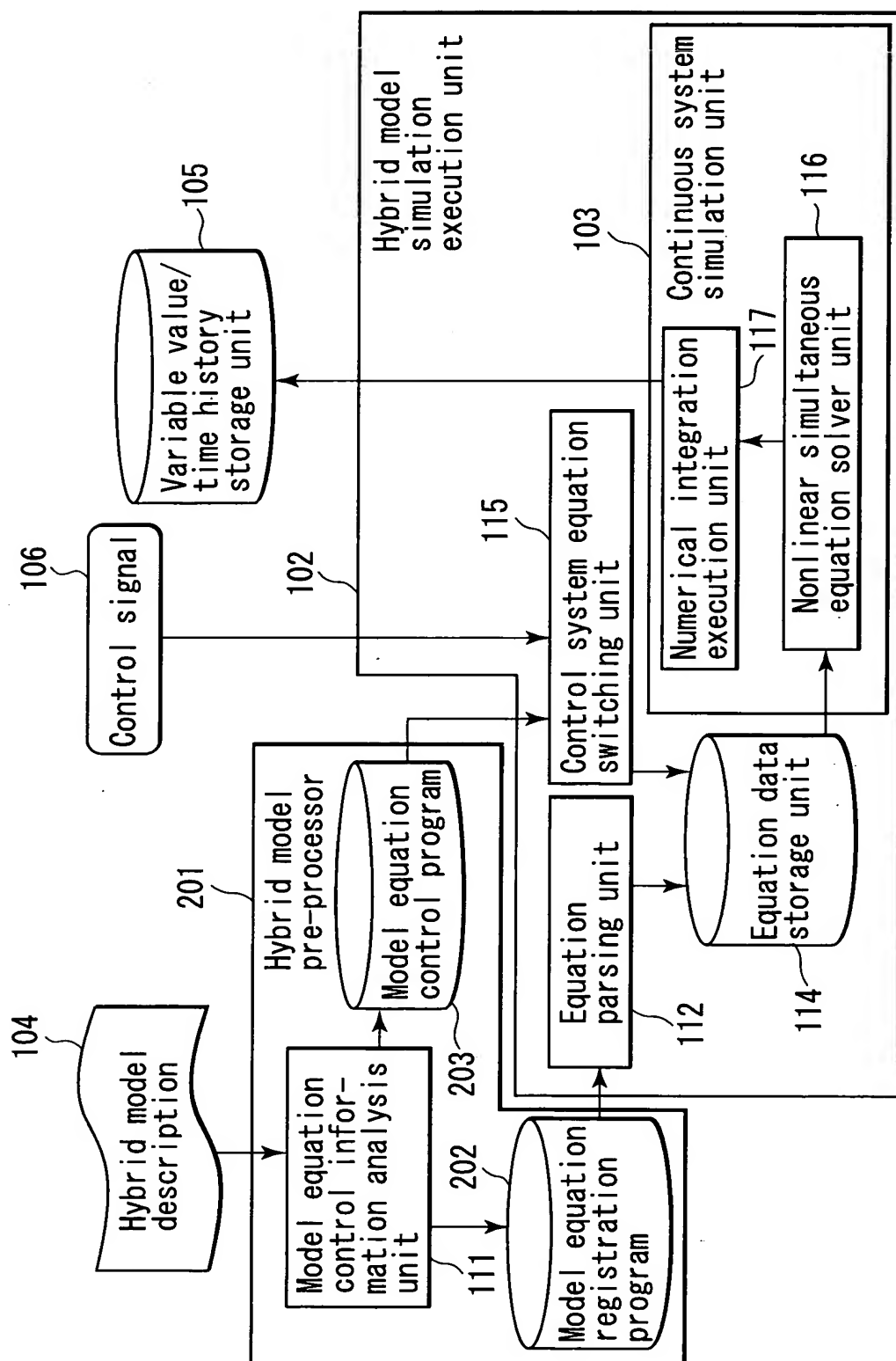


FIG. 9



**FIG. 10**